

Title (en)

PIPETTE PRESSURE SENSOR FOR A DIAGNOSTIC SYSTEM

Title (de)

DRUCKFÜHLER EINER PIPETTE FÜR EIN DIAGNOSTISCHES SYSTEM

Title (fr)

CAPTEUR DE PRESSION POUR DISPOSITIF DE PIPETTAGE DE SYSTEME DIAGNOSTIQUE

Publication

**EP 0815452 A1 19980107 (EN)**

Application

**EP 97901438 A 19970114**

Priority

- US 9700443 W 19970114
- US 58904396 A 19960119

Abstract (en)

[origin: WO9726542A1] A device (10) is provided for detecting a flow restriction in pipetting transporting a fluid sample (14) for a diagnostic system. The device (10) comprises a hollow conduit (12) which transports the fluid sample (14), a housing (16), a substantially incompressible medium (18), and a sensor (20). The hollow conduit (12) includes a flexible section (24), i.e., a piece of thin-walled tubing made from an elastomer. The conduit (12) has a substantially constant internal cross-sectional area. The housing (16) has an internal cavity (60) which substantially encloses the flexible section (24) and forms a sealed internal chamber (62) around the flexible section (24). The substantially incompressible medium (18) fills the internal chamber (62). The sensor (20) is in communication with the substantially incompressible medium (18) and detects a change of pressure of the substantially incompressible medium (18). A flow restriction in the conduit (12) causes an increase of pressure in the conduit (12) which causes the flexible section (24) to expand. Expansion of the flexible section (24) results in an increase of pressure in the substantially incompressible medium (18) in the internal chamber (62) which is detected by the sensor (20).

IPC 1-7

**G01N 35/10**; G01L 7/02; G01L 9/00

IPC 8 full level

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CPC (source: EP)

**G01L 7/02** (2013.01); **G01L 9/0001** (2013.01); **G01N 35/1016** (2013.01); **G01N 2035/1018** (2013.01)

Citation (search report)

See references of WO 9726542A1

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